

### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Soo-doo CHAE, et al.

Art Unit: 2818

Serial No.

10/681,346

Examiner:

Filed:

October 9, 2003

Confirmation No. 8321

For:

SINGLE ELECTRON MEMORY DEVICE COMPRISING QUANTUM DOTS BETWEEN GATE ELECTRODE AND SINGLE ELECTRON STORAGE ELEMENT AND METHOD FOR MANUFACTURING

THE SAME

## INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.56

Commissioner for Patents Alexandria, VA 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 (or PTO-1449, *modified*) is a listing of a document(s) known to applicant in order to comply with applicant's duty of disclosure pursuant to 37 C.F.R. §1.56.

☐ A copy of each listed document is being submitted to comply with the provisions of 37 C.F.R. §§1.97 & 1.98. [Box checked if applicable.]

A copy of each listed non-U.S. patent and/or patent publication and cited literature is being submitted to comply with the provisions of 37 C.F.R. §§1.97 & 1.98. Cited U.S. patents and patent publications are *not* attached in accordance with the waiver set forth in the Notice by the Deputy Commissioner for Patent Examination Policy dated July 11, 2003, applicable to applications having a U.S. filing date *after* June 30, 2003. [Box checked if applicable.]

\* \* \*

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application. Applicant does not waive any rights to take any action that would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* prior art reference against the claims of the present application.

☐ The listed document(s) is/are being submitted in compliance with 37 C.F.R. 1.97(b)(3): submission before the mailing date of the first action on the merits. [Box checked if applicable.] ☐ The foregoing document came to applicant's attention during the prosecution of their corresponding European application. ☐ A copy of the EP Search Report is also attached. [Box(es) checked if applicable.]

#### **CERTIFICATION**

The undersigned hereby certifies in accordance with 37 CFR §1.97(e)(1) that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three (3) months prior to the filing of this Statement. [Box checked if applicable.]

\* \* \*

Applicant respectfully requests that the listed document(s) be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

\* \* \*

#### **FEE PAYMENT**

□ The fee mandated by 37 C.F.R. §1.17(p) is believed applicable. [Box checked if applicable.]
 □ Attached is a check in payment of this fee (\$180.00). [Box checked if applicable.]
 □ This fee may be charged to Deposit Account No. 50-1645. (A duplicate copy of this paper is enclosed.) [Box checked if applicable.]

Respectfully submitted,

April 1, 2004

Date

Eugene M. Lee, Registration No. 32,039

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## DEPOSIT ACCOUNT CHARGE AUTHORIZATION

If fee payment is enclosed, this amount is believed to be correct. However, the Director is hereby authorized to charge any deficiency or credit any overpayment to Deposit Account No. 50-1645.

Any additional fee(s) necessary to effect the proper and timely filing of the above-paper may also be charged to Deposit Account No. 50-1645.

PTO/SB/08A (04-03)
Approved for use through 04/30/2003. OMB 0651-0031
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Substitute for form 1449/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Coi	mplete if Known	
Application Number	10/681,346	
Filing Date	October 9, 2003	
First Named Inventor	Soo-doo CHAE, et al.	
Art Unit	2818	
Examiner Name		
Attorney Docket Number	249/286 DIV	

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	<b></b>	Number-Kind Code <sup>2</sup> (# known)			, iguico / ippoui
	1	<sup>US-</sup> 5,937,295	08-10-1999	CHEN, et al.	
		<sup>US-</sup> 6,060,743	05-09-2000	SUGIYAMA, et al.	
		<sup>US-</sup> 6,208,000 B1	03-27-2001	TANAMOTO, et al.	
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		FOREIG	GN PATENT DOCL	JMENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	MM-DD-YYYY		Or Relevant Figures Appear	T <sup>6</sup>
		EP 0 843 360 A1	05-20-1998	NAKAZATO, et al		
		JP 9-36317 *	02-07-1997	TODA *		
		JP 2000-150862 * /**	05-30-2000	FUJITA		
		*w/Eng.Abstract				
		**Previously cited				

Examiner	Date
Signature	Considered

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Transation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO THIS ADDRESS. TO: Commissioner for Patents, Washington, DC 20231.

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ATEMENT BY APPLICANT (Use as many sheets as necessary)		First Named Inventor	Soo-doo CHAE, et al.		
		Art Unit	2818		
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Sheet	2 of	2	Attorney Docket Number	249/286 DIV	

Examiner	Cite	NON PATENT LITERATURE DOCUMENTS  Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of	ſ
Initials*	No.1	the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
		OHBA et al, "Non-Volatile Si Quantum Memory",IEDM (Cat. No. 00CH37138), IEDM 00-313-316 (12/2000)	
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Signature Considered

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not

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